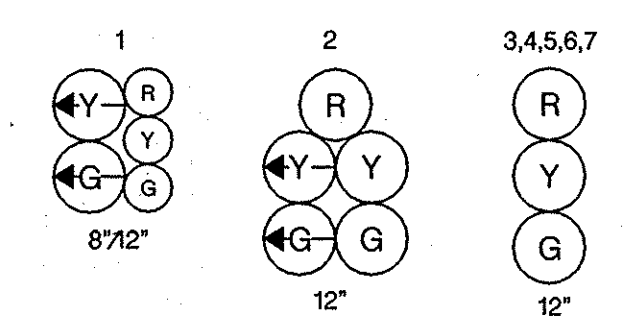
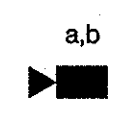


MD 99 IS ASSUMED TO RUN
IN AN EAST-WEST DIRECTION

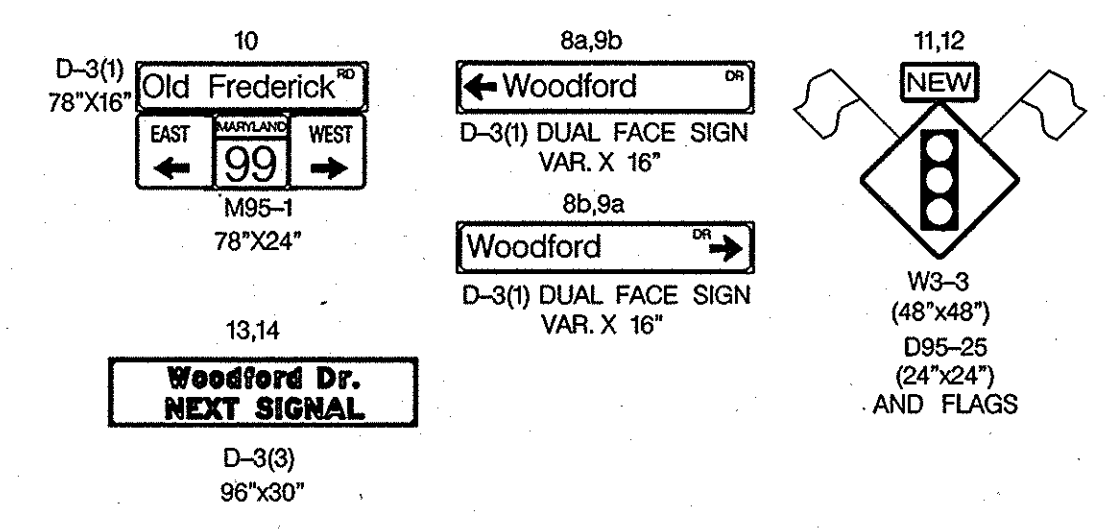
PROPOSED L.E.D. SIGNALS



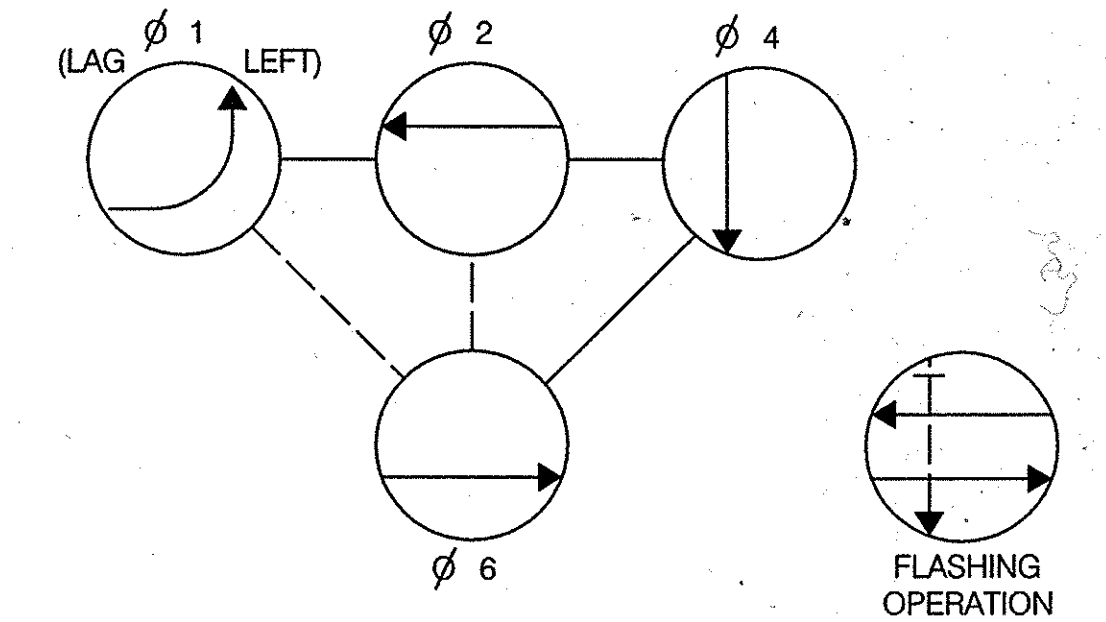
PROPOSED VIDEO DETECTION CAMERA



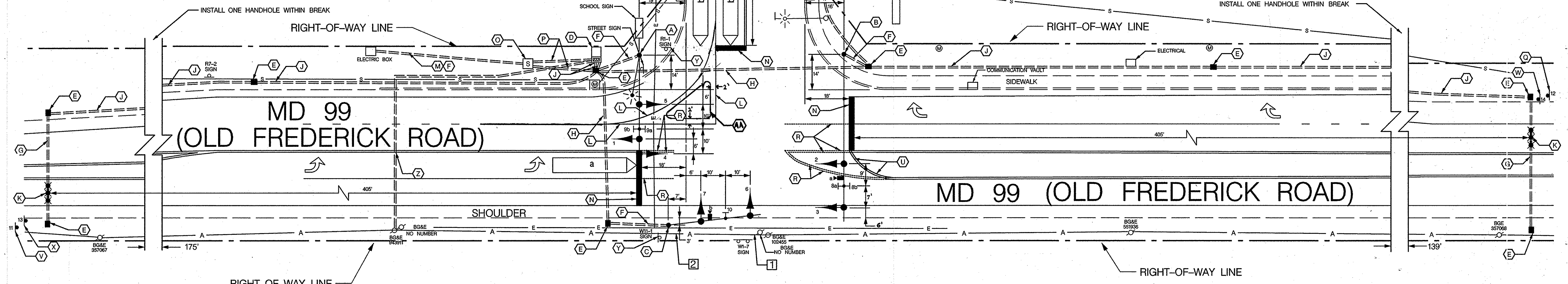
PROPOSED SIGNS



NEMA PHASING



PHASING NOTES:
1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
3.) PHASE 1 SHALL LAG PHASES 2 AND 6



CONSTRUCTION DETAILS

- INSTALL 27 FT. MAST ARM POLE WITH 50 FT. MAST ARM, SIGNAL HEADS, SIGNS, AND 15 FT. STREET LIGHTING ARM WITH 250 WATT HPS LUMINAIRE (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- INSTALL 27 FT. MAST ARM POLE WITH A 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- INSTALL 21 FT. MAST ARM POLE WITH 38 FT. MAST ARM, SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH ALL OTHER NECESSARY EQUIPMENT (NOTE: INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- INSTALL ELECTRICAL HANDHOLE
- INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - BORED
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - BORED
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- INSTALL NON-INVASIVE MICRO-LOOP PROBE
- INSTALL 10 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- PROPOSED UNDERGROUND ELECTRIC SERVICE
- INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- INSTALL METER SERVICE PEDESTAL
- INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- INSTALL WS-3 SIGN ON WESTBOUND MD 99 APPROXIMATELY 1200 FT. IN ADVANCE OF THE INTERSECTION ON TWO 4 IN. X 6 IN. WOOD POSTS (TO BE REMOVED BY DISTRICT FORCES THREE MONTHS AFTER SIGNAL TURN ON)
- REMOVE EXISTING PAVEMENT MARKINGS
- INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALIC CONDUIT - DETECTOR SLEEVE
- INSTALL 6 FT. X 22 FT. QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 WINDING)
- INSTALL 5 IN. YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- INSTALL WS-3 SIGN ON EASTBOUND MD 99 APPROXIMATELY 900 FT. IN ADVANCE OF THE INTERSECTION ON TWO 4 IN. X 6 IN. WOOD POSTS (TO BE REMOVED BY DISTRICT FORCES THREE MONTHS AFTER SIGNAL TURN ON)
- INSTALL D-3(3) SIGN ON WESTBOUND MD 99 APPROXIMATELY 450 FT. IN ADVANCE OF THE INTERSECTION ON TWO 4 IN. X 6 IN. WOOD POSTS (RELOCATE THE EXISTING "SCHOOL ZONE" SIGN APPROX. 100 FT. TO THE EAST)
- INSTALL D-3(3) SIGN ON EASTBOUND MD 99 APPROXIMATELY 500 FT. IN ADVANCE OF THE INTERSECTION ON TWO 4 IN. X 6 IN. WOOD POSTS
- REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORTS
- INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - BORED (FOR PROPOSED PHONE DROP)

AA. INSTALL SAND COLORED HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR ISLAND (15'x15', R=2')

UTILITY HEIGHTS

- TELEPHONE = 21' - 3"
NEUTRAL = 30' - 9"
PRIMARY = >35' - 0"
- TELEPHONE = 21' - 0"
NEUTRAL = 30' - 5"
PRIMARY = >35' - 0"

GENERAL NOTES

- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCE AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- REMOVE THE EXISTING ADVANCE STREET NAME SIGN ON E.B. MD 99 WEST OF WOODFORD DRIVE.
- REMOVE EXISTING R1-1 "STOP" SIGN FOR WOODFORD DRIVE WHEN THE SIGNAL IS OPERATIONAL.
- MAST ARM POLE "C" SHALL BE INSTALLED NO CLOSER THAN 2 FT. FROM THE OVERHEAD TELEPHONE LINE.

TOD NO: AX142-03
SHA No: HO407A51/C51/M51
MD 99 @ Woodford Drive

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL PLAN
MD 99 (OLD FREDERICK ROAD)
AND WOODFORD DRIVE

TRAFFIC CONCEPTS, INC.
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APPROVALS	REVISIONS
 J. W. Bullock NEW LEADER	
 Michael R. Bullock ASST. DIV. CHIEF	
 Michael R. Bullock DIVISION CHIEF	
 J. W. Bullock OFFICE DIRECTOR	

SCALE 1"=20'	DATE 3-1-07	CONTRACT NO. AX 1425185
DESIGNED BY T. ZAYDEL	COUNTY HAWARD	
DRAWN BY T. ZAYDEL	LOGMILE 1:1009900.82	
CHECKED BY K. SCHMID	T.I.M.S. NO. 1.010	
F.A.P. NO. N/A	TOD NO.	
DRAWING NO. TS-4559	SHEET NO. 1 OF 2	